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Assistant Commissioner for Patents,  
Washington, D.C. 20231

on

TOWNSEND and TOWNSEND and CREW LLP

By

**PATENT**  
Attorney Docket No.: 02307V-  
121600US  
UC Case No. B02-027-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

William R. Ashurst et al.

Serial No.: 10/086,652

Filed: 2/28/02

For: VAPOR DEPOSITION OF  
DIHALODIALKYL SILANES

Examiner: not assigned

Art Unit: 1762

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**POWER OF ATTORNEY BY ASSIGNEE  
AND EXCLUSION OF INVENTOR(S) UNDER 37 CFR § 3.71**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The undersigned assignee of the entire interest of inventors William R. Ashurst, Carlo Carraro and Roya Maboudian in the above-identified subject application hereby appoints Kevin L. Bastian, Reg. No. 34,774; M. Henry Heines, Reg. No. 28,219; Laurence J. Hyman, Reg. No. 35,551; Jean M. Lockyer, Reg. No. 44,879; Jeffry S. Mann, Reg. No. 42,837; Annette S. Parent, Reg. No. 42,058; William M. Smith, Reg. No. 30,223; Joseph R. Snyder, Reg. No. 39,381; Eugenia Garrett-Wackowski, Reg. No. 37,330; Ellen Lauver Weber, Reg. No. 32,762; Kenneth A. Weber, Reg. No. 31,677; all of the firm of Townsend and Townsend and

Crew LLP, as its attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, said appointment to be to the exclusion of the inventors and their attorney(s) in accordance with 37 CFR § 3.71.

An assignment of the entire interest of inventors William R. Ashurst, Carlo Carraro and Roya Maboudian in the above-identified subject application:

☐ was recorded on \_\_\_\_\_ at reel/frame  
\_\_\_\_\_/\_\_\_\_\_.

☒ is being concurrently submitted under separate cover to Attn: Box  
Assignments for recording, a copy not for recordation is enclosed.

Please direct all telephone calls to M. Henry Heines and all correspondence relative to said application to the following address:

Townsend and Townsend and Crew LLP  
Two Embarcadero Center, 8th Floor  
San Francisco, California 94111-3834

ASSIGNEE:

THE REGENTS OF THE  
UNIVERSITY OF CALIFORNIA

Signature:

Typed Name:

Title:



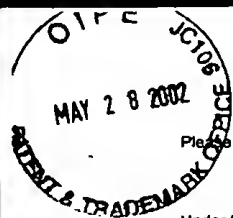
William A. Hoskins

Director

~~Office of Technology Transfer~~  
~~1111 Franklin Street, 5th Floor~~  
~~Oakland, CA 94607-5200~~

Office of Technology Licensing  
2150 Shattuck Ave., Suite 510 #1620  
Berkeley, CA 94720-1620

Dated: MAY 7, 2002



Please type a plus sign (+) inside this box → ☐

PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>POWER OF ATTORNEY OR AUTHORIZATION OF AGENT</b>	<b>Application Number</b>	10/086,652
	<b>Filing Date</b>	2/28/02
	<b>First Named Inventor</b>	William R. Ashurst
	<b>Title</b>	VAPOR DEPOSITION OF DIHALODIALKYLILANES
	<b>Group Art Unit</b>	1762
	<b>Examiner Name</b>	
	<b>Attorney Docket Number</b>	02307V-121600US

I hereby appoint:

☒ Practitioners at Customer Number  
**OR**

20350

Place Customer  
Number Bar Code  
Label here

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

**OR**

☐ Practitioners at Customer Number

<input type="checkbox"/> Firm or Individual Name					
Address					
Address					
City		State		ZIP	
Country					
Telephone		Fax			

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire right, title and interest of inventor Wilhelm Frey. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

**SIGNATURE of Applicant or Assignee of Record**

Name	Wilhelm Frey
Signature	Wilhelm Frey
Date	May 31, 2002

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☒ \*Total of 1 forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any Comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

SF 1340193 v1

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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION  
USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

**Title of Invention** VAPOR DEPOSITION OF DIHALODIALKYL SILANES

As the below named inventor(s), I/we declare that:

This declaration is directed to:

- ☐ The attached application, or
- ☒ Application No. 10/086,652 filed on February 28, 2002
- ☐ as amended on \_\_\_\_\_ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

**FULL NAME OF INVENTOR(S)**

Inventor 1 William R. Ashurst Date: 4/29/02

Signature: William Ashurst Citizen of: United States

Inventor 2 Roya Maboudian Date: \_\_\_\_\_

Signature: Roya Maboudian Citizen of: United States 4/29/02

Inventor 3 Carlo Carraro Date: 04/29/2002

Signature: Carlo Carraro Citizen of: United States

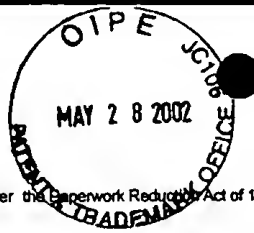
Inventor 4 Wilhelm Frey Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Citizen of: United States

☐ Additional inventors are being named on form(s) attached hereto.

Burden Hour Statement: This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is used by the public to file (and the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 1 minute to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.  
SF 1340184 v1

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**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: William R. Ashurst, Carlo Carraro, Roya Maboudian, and Wilhelm Frey

Application No./Patent No.: 10/086,652 Filed/Issue Date: 2/28/02

Entitled: VAPOR DEPOSITION OF DIHALODIALKYL SILANES

The Regents of the University of California, a university  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

- 1. ☒ the assignee of the entire right, title, and interest of Inventors William R. Ashurst, Carlo Carraro, and Roya Maboudian; or
- 2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_%

in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

**[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]**

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

MAY 2 2002  
Date

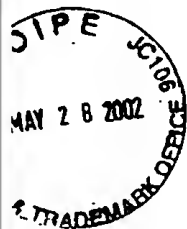
William A. Hoskins  
Typed or printed name

[Signature]  
Signature

Director  
Title

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Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION  
USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

**Title of invention** | **VAPOR DEPOSITION OF DIHALODIALKYL SILANES**

As the below named inventor(s), I/we declare that:

This declaration is directed to:

- ☐ The attached application, or
- ☒ Application No. 10/086,652 filed on February 28, 2002
- ☐ as amended on \_\_\_\_\_ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

**FULL NAME OF INVENTOR(S)**

Inventor 1 William R. Ashurst Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Citizen of: United States

Inventor 2 Roya Maboudian Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Citizen of: United States

Inventor 3 Carlo Carraro Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Citizen of: United States

Inventor 4 Wilhelm Frey Date: May 3<sup>rd</sup>, 2002

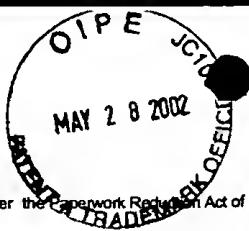
Signature: Wilhelm Frey Citizen of: United States Germany

☐ Additional inventors are being named on form(s) attached hereto.

Burden Hour Statement: This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is used by the public to file (and the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 1 minute to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

SF 1340184 v1

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**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: William R. Ashurst, Roya Maboudian, Carlo Carraro and Wilhelm Frey

Application No./Patent No.: 10/086,652 Filed/Issue Date: 2/28/02

Entitled: VAPOR DEPOSITION OF DIHALODIALKYL SILANES

Robert Bosch Corporation, a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ The assignee of the entire right, title, and interest of inventor Wilhelm Frey; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_%

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

**[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]**

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

May 3<sup>rd</sup>, 2002  
Date

Wilhelm FREY  
Typed or printed name  
Wilhelm Frey  
Signature  
Project Manager  
Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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**ASSIGNMENT**U.C.B. Case No. B02-027-1

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S),

1. William R. Ashurst 2. Roya Maboudian  
 3. Carlo Carraro 4. \_\_\_\_\_

hereby sells, assigns and transfers to ASSIGNEE, The Regents of the University of California, a California Corporation, having its statewide administrative offices located 1111 Franklin St., 12<sup>th</sup> Floor, Oakland, CA 94607-5200, and the successors, assigns and legal representatives of the ASSIGNEE all of its right, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the UCB Case No. B02-027-1 entitled:

**VAPOR DEPOSITION OF DIHALODIALKYL SILANES**

or which is found in

- (a) \_\_\_\_\_ U.S. provisional application filed herewith and listing the above-named persons as inventors  
 (b) \_\_\_\_\_ U.S. patent application filed herewith and listing the above-named persons as inventors  
 (c) x \_\_\_\_\_ U.S. application serial no. 10/086,652, filed on 2/28/2002  
 (d) \_\_\_\_\_ U.S. Patent No.: \_\_\_\_\_, issued \_\_\_\_\_

and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(a) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property;

ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR(S) further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.

AND the ASSIGNOR(S) requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, The Regents of the University of California.

executed this

29<sup>th</sup> day of April, 200229 day of April, 200229th day of April, 2002

Signature of Inventor(s)

William R. Ashurst

William R. Ashurst

Roya Maboudian

Roya Maboudian

Carlo Carraro

Carlo Carraro

**COPY***"Not for recalculation"*



ASSIGNMENT OF PATENT APPLICATION

SOLE

WHEREAS, Wilhelm Frey of 279 Calderon Avenue Unit C, Mountain View, CA 94041  
hereinafter referred to as "Assignor," is the inventor of the invention described and set forth in the below-identified  
application for United States Letters Patent:

Title of Invention: VAPOR DEPOSITION OF DIHALODIALKYLSILANES

Date(s) of execution of Declaration: 5/3/02

Filing Date: February 28, 2002

Application No.: 10/086,652; and

WHEREAS, Robert Bosch Corporation located at 4009 Miranda Avenue, Palo Alto, CA 94304,  
hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in  
any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignor,  
Assignor has assigned, and by these presents does assign to Assignee all right, title and interest in and to the  
invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and  
in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming  
priority from the same in the United States and all countries throughout the world, and to claim the priority from the  
application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee  
and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor  
had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted  
thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation  
or extension thereof.

Assignor further agrees that Assignor will, without charge to Assignee, but at Assignee's expense,  
(a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention  
and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications  
and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain  
Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto  
in Assignee, or Assignee's successors and assigns.

Assignor hereby authorizes and requests Townsend and Townsend and Crew LLP, Two  
Embarcadero Center, 8<sup>th</sup> Floor, San Francisco, CA 94111-3834, to insert herein above the application number and  
filing date of said application when known.

COPY

"Not for recardation"

IN TESTIMONY WHEREOF, Assignor has signed his/her name on the date indicated.

Dated: May 3<sup>rd</sup>, 2002

Wilhelm Frey  
Wilhelm Frey

STATE OF CALIFORNIA       )  
                                      )  
COUNTY OF                   )       ss.

On \_\_\_\_\_, before me, \_\_\_\_\_,  
personally appeared Wilhelm Frey, personally known to me (or proved to me on the basis of  
satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me  
that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the  
person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

SF 1340179 v1